

**Project Name:** SC  
**Project Code:** SC **Site ID:** CP102 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

#### Site Information

<b>Desc. By:</b> P.H. Walker	<b>Locality:</b> Mayfair just east of Brundee Swamp:levee crest:
<b>Date Desc.:</b> 20/12/78	<b>Elevation:</b> 2 metres
<b>Map Ref.:</b> Sheet No. : 8928 1:100000	<b>Rainfall:</b> 1150
<b>Northing/Long.:</b> 150.663888888889	<b>Runoff:</b> Very slow
<b>Easting/Lat.:</b> -34.9111111111111	<b>Drainage:</b> Imperfectly drained

#### Geology

<b>ExposureType:</b> No Data	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> Porous, Unconsolidated material (unidentified)

#### Land Form

<b>Rel/Slope Class:</b> Level plain <9m <1%	<b>Pattern Type:</b> Flood plain
<b>Morph. Type:</b> Crest	<b>Relief:</b> No Data
<b>Elem. Type:</b> Levee	<b>Slope Category:</b> Level
<b>Slope:</b> <1 %	<b>Aspect:</b> 270 degrees

**Surface Soil Condition (dry):** Soft

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Melacic Regolithic Chernic Tenosol	<b>Principal Profile Form:</b> Gn3.9
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Prairie soil
Analytical data are incomplete but reasonable confidence.	

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:** Low Strata - Sod grass, 0.26-0.5m, Closed or dense. \*Species includes - None recorded

#### Surface Coarse Fragments:

#### Profile Morphology

A	0 - 0.1 m	Very dark grey (5YR3/1-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Granular; Moist; Weak consistence; Field pH 5.2 (pH meter); Gradual change to -
A	0.1 - 0.2 m	Dark reddish brown (5YR3/2-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Granular; Moist; Weak consistence; Field pH 5.2 (pH meter); Gradual change to -
A	0.2 - 0.3 m	Dark reddish brown (5YR3/2-Moist); , 10YR56, 2-10% ; , 2-10% ; Clay loam; Moderate grade of structure, 5-10 mm, Granular; Moist; Weak consistence; Field pH 4.9 (pH meter); Clear change to -
B	0.3 - 0.4 m	Grey (5Y6/1-Moist); , 7.5YR56, 20-50% ; , 20-50% ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moist; Weak consistence; Field pH 4.7 (pH meter); Gradual change to -
B	0.4 - 0.5 m	Grey (5Y6/1-Moist); , 7.5YR56, 2-10% ; , 2-10% ; Light clay; Massive grade of structure; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 5 (pH meter); Clear change to -
BC	0.5 - 0.6 m	Dark grey (5Y4/1-Moist); , 2.5Y56, 2-10% ; , 2-10% ; Clayey fine sand; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 5.1 (pH meter); Clear change to -
C	0.6 - 0.7 m	Grey (5Y5/1-Moist); , 2.5Y56, 20-50% ; , 20-50% ; Clay loam, fine sandy; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 5 (pH meter); Clear change to -
D	0.7 - 0.8 m	Grey (5Y5/1-Moist); , 7.5YR56, 20-50% ; , 20-50% ; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 5.1 (pH meter); Gradual change to -
D	0.8 - 0.9 m	Dark greenish grey (5GY4/1-Moist); , 7.5YR56, 20-50% ; , 20-50% ; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 5.1 (pH meter); Gradual change to -
D	0.9 - 1 m	Dark greenish grey (5GY4/1-Moist); , 7.5YR56, 20-50% ; , 20-50% ; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Tubules; Field pH 5 (pH meter); Gradual change to -
D	1 - 1.2 m	Strong brown (7.5YR5/8-Moist); , N50, 10-20% ; , 10-20% ; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Tubules; Field pH 4.9 (pH meter); Gradual change to -

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D	1.2 - 1.4 m	Strong brown (7.5YR5/8-Moist); , N50, 2-10% ; , 2-10% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 5.2 (pH meter); Gradual change to -
D	1.4 - 1.6 m	Dark grey (2.5Y4/1-Moist); , 2.5Y54, 2-10% ; , 2-10% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 5.3 (pH meter); Gradual change to -
D	1.6 - 1.8 m	Very dark grey (2.5Y3/1-Moist); ; Sandy loam; Wet; Very weak consistence; Non-plastic; Non-sticky; Field pH 5.2 (pH meter); Gradual change to -
D	1.8 - 2 m	Black (2.5Y2/1-Moist); , 10YR42, 0-2% ; , 0-2% ; Loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.9 (pH meter); Gradual change to -
D	2 - 2.2 m	Black (2.5Y2/1-Moist); , 10YR42, 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.7 (pH meter); Gradual change to -
D	2.2 - 2.4 m	Black (2.5Y2/1-Moist); , 10YR42, 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 6.1 (pH meter);

### **Morphological Notes**

### **Observation Notes**

ALLUVIAL LEVEE SEDIMENTS

### **Site Notes**

BRUNDEE

**Observation ID: 1**

[illegible]

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0.7 - 0.8  
0.8 - 0.9  
0.9 - 1  
1 - 1.2  
1.2 - 1.4  
1.4 - 1.6  
1.6 - 1.8  
1.8 - 2  
2 - 2.2  
2.2 - 2.4

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**Laboratory Analyses Completed for this profile**

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance